TABLE A-8
Imputation for nonresponse in postdoc and nonfaculty research totals, by field: 2018–19 (Number and percent)

	Total in survey		Number imputed		Imputation rate (%)	
Year and field	Postdoctoral appointees	Doctorate nonfaculty researchers	Postdoctoral appointees	Doctorate nonfaculty researchers	Postdoctoral appointees	Doctorate nonfaculty researchers
Fall 2019, all surveyed fields	66,247	30,349	2,986	2,886	4.5	9.5
Science and engineering	46,769	22,728	1,585	2,257	3.4	9.9
Science	38,503	18,819	1,327	1,863	3.4	9.9
Agricultural sciences	1,079	645	10	90	0.9	14.0
Biological and biomedical sciences	21,847	8,229	864	924	4.0	11.2
Computer and information sciences	878	510	27	24	3.1	4.7
Geosciences, atmospheric sciences, and ocean sciences	1,778	2,177	37	108	2.1	5.0
Mathematics and statistics	1,070	305	27	34	2.5	11.1
Multidisciplinary and interdisciplinary studies	972	820	24	17	2.5	2.1
Natural resources and conservation	806	582	21	25	2.6	4.3
Physical sciences	7,159	3,316	196	509	2.7	15.3
Psychology	1,152	576	71	26	6.2	4.5
Social sciences	1,762	1,659	50	106	2.8	6.4
Engineering	8,266	3,909	258	394	3.1	10.1
Aerospace, aeronautical, and astronautical engineering	227	124	3	9	1.3	7.3
Agricultural engineering	112	55	0	0	0.0	0.0
Bioengineering and biomedical engineering	1,515	492	119	74	7.9	15.0
Biological and biosystems engineering	87	53	0	5	0.0	9.4
Chemical engineering	1,157	328	24	45	2.1	13.7
Civil engineering	865	492	11	41	1.3	8.3
Electrical, electronics, and communications engineering	1,305	637	35	82	2.7	12.9
Engineering mechanics, physics, and science	180	186	0	4	0.0	2.2
Industrial and manufacturing engineering	167	137	16	49	9.6	35.8
Mechanical engineering	1,142	531	24	33	2.1	6.2
Metallurgical and materials engineering	642	242	17	7	2.6	2.9
Mining engineering	23	61	0	3	0.0	4.9
Nanotechnology	151	76	0	0	0.0	0.0
Nuclear engineering	80	41	0	6	0.0	14.6
Petroleum engineering	72	82	0	32	0.0	39.0
Engineering nec	541	372	9	4	1.7	1.1
Health	19,478	7,621	1,401	629	7.2	8.3
Clinical medicine <sup>a</sup>	16,650	6,273	1,290	552	7.7	8.8
Other health	2,828	1,348	111	77	3.9	5.7
Fall 2018, all surveyed fields	64,783	29,284	2,254	2,937	3.5	10.0
Science and engineering	45,478	21,848	1,571	2,231	3.5	10.2

TABLE A-8
Imputation for nonresponse in postdoc and nonfaculty research totals, by field: 2018–19 (Number and percent)

Year and field	Total in survey		Number imputed		Imputation rate (%)	
	Postdoctoral appointees	Doctorate nonfaculty researchers	Postdoctoral appointees	Doctorate nonfaculty researchers	Postdoctoral appointees	Doctorate nonfaculty researchers
Science	37,564	18,278	1,475	1,887	3.9	10.3
Agricultural sciences	1,072	565	14	0	1.3	0.0
Biological and biomedical sciences	21,533	8,250	861	1,097	4.0	13.3
Computer and information sciences	879	515	20	42	2.3	8.2
Geosciences, atmospheric sciences, and ocean sciences	1,726	2,106	145	90	8.4	4.3
Mathematics and statistics	982	266	11	53	1.1	19.9
Multidisciplinary and interdisciplinary studies	980	832	122	23	12.4	2.8
Natural resources and conservation	764	580	4	5	0.5	0.9
Physical sciences	6,976	3,056	265	446	3.8	14.6
Psychology	1,145	507	19	29	1.7	5.7
Social sciences	1,507	1,601	14	102	0.9	6.4
Engineering	7,914	3,570	96	344	1.2	9.6
Aerospace, aeronautical, and astronautical engineering	207	115	2	11	1.0	9.6
Agricultural engineering	113	60	0	0	0.0	0.0
Bioengineering and biomedical engineering	1,433	440	9	47	0.6	10.7
Biological and biosystems engineering	96	51	0	0	0.0	0.0
Chemical engineering	1,142	257	8	10	0.7	3.9
Civil engineering	739	414	5	31	0.7	7.5
Electrical, electronics, and communications engineering	1,197	588	22	103	1.8	17.5
Engineering mechanics, physics, and science	354	220	19	8	5.4	3.6
Industrial and manufacturing engineering	156	105	8	32	5.1	30.5
Mechanical engineering	1,069	489	8	39	0.7	8.0
Metallurgical and materials engineering	549	215	0	0	0.0	0.0
Mining engineering	26	52	0	0	0.0	0.0
Nanotechnology	134	43	0	0	0.0	0.0
Nuclear engineering	106	41	7	8	6.6	19.5
Petroleum engineering	63	80	0	32	0.0	40.0
Engineering nec	530	400	8	23	1.5	5.8
Health	19,305	7,436	683	706	3.5	9.5
Clinical medicine <sup>a</sup>	16,563	6,159	572	637	3.5	10.3
Other health	2,742	1,277	111	69	4.0	5.4
Fall 2017, all surveyed fields	64,733	28,180	2,229	1,792	3.4	6.4
Science and engineering	46,080	20,542	1,604	1,372	3.5	6.7
Science	38,241	17,268	1,540	1,200	4.0	6.9
Agricultural sciences	1,024	496	9	3	0.9	0.6

TABLE A-8
Imputation for nonresponse in postdoc and nonfaculty research totals, by field: 2018–19 (Number and percent)

Year and field	Total in survey		Number imputed		Imputation rate (%)	
	Postdoctoral appointees	Doctorate nonfaculty researchers	Postdoctoral appointees	Doctorate nonfaculty researchers	Postdoctoral appointees	Doctorate nonfaculty researchers
Biological and biomedical sciences	21,781	8,203	803	681	3.7	8.3
Computer and information sciences	854	476	30	33	3.5	6.9
Geosciences, atmospheric sciences, and ocean sciences	2,089	1,794	52	29	2.5	1.6
Mathematics and statistics	991	240	55	8	5.5	3.3
Multidisciplinary and interdisciplinary studies	1,131	806	145	18	12.8	2.2
Natural resources and conservation	731	364	15	1	2.1	0.3
Physical sciences	7,211	2,871	385	389	5.3	13.5
Psychology	1,082	494	30	8	2.8	1.6
Social sciences	1,347	1,524	16	30	1.2	2.0
Engineering	7,839	3,274	64	172	0.8	5.3
Aerospace, aeronautical, and astronautical engineering	196	102	1	1	0.5	1.0
Agricultural engineering	111	52	0	0	0.0	0.0
Bioengineering and biomedical engineering	1,398	415	19	19	1.4	4.6
Biological and biosystems engineering	78	36	0	0	0.0	0.0
Chemical engineering	1,197	281	6	29	0.5	10.3
Civil engineering	804	422	6	19	0.7	4.5
Electrical, electronics, and communications engineering	1,170	557	5	36	0.4	6.5
Engineering mechanics, physics, and science	316	200	0	0	0.0	0.0
Industrial and manufacturing engineering	127	119	2	26	1.6	21.8
Mechanical engineering	1,089	458	10	27	0.9	5.9
Metallurgical and materials engineering	550	181	12	12	2.2	6.6
Mining engineering	15	52	0	1	0.0	1.9
Nanotechnology	85	33	0	0	0.0	0.0
Nuclear engineering	94	22	0	2	0.0	9.1
Petroleum engineering	65	59	0	0	0.0	0.0
Engineering nec	544	285	3	0	0.6	0.0
Health	18,653	7,638	625	420	3.4	5.5
Clinical medicine	16,100	6,448	503	343	3.1	5.3
Other health	2,553	1,190	122	77	4.8	6.5

nec = not elsewhere classified.

<sup>&</sup>lt;sup>a</sup> Clinical medicine includes postdoctoral appointees and nonfaculty researchers in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics and gynecology, oncology and cancer research, ophthalmology, otorhinolaryngology, pediatrics, psychiatry, public health, pulmonary disease, radiology, surgery, and clinical medicine nec.

## National Center for Science and Engineering Statistics | NSF 21-318

## Note(s):

"Field" refers to the field of the unit that reports postdoctoral appointees and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering. Sum of the broad fields may not add to total because of rounding.

## Source(s):

National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.